

AMENDMENTS TO THE CLAIMS

1. (currently amended) A non-toxic and non-corrosive ignition mixture free of a dinol type explosive wherein the mixture comprises

from 5 to 40 weight percent of a ~~high~~ nitroester or nitramine containing explosive in place of a dinol type explosive, ~~selected from the group consisting of nitroesters and nitramines,~~

from 5 to 40 weight percent of a ~~sensibilizer, selected from the group consisting of tetrazene and salts or derivatives of tetrazoles;~~

from 5 to 50% of an oxidizing agent, selected from the group consisting of oxides of copper, zinc, bismuth, iron, manganese, tin, vanadium or molybdenum; peroxides of zinc or calcium; saltpetre; basic nitrates of bismuth, tin or copper; and ~~diammo-copper nitrate~~ $\text{Cu}(\text{NH}_3)_2(\text{NO}_3)_2$;

from 1 to 20 weight percent of boron;

from 5 to 30 percent of a friction agent; and

optionally from 0.1 to 5 weight percent of a bonding agent.

2. (currently amended) The mixture according to claim 1 wherein said ~~high~~ explosive is selected from the group consisting of penthrite, hexanitromannite, nitrocellulose, hexogene, octogene, and tetryle.

3. (previously presented) The mixture according to claim 1 wherein said boron is amorphous boron with specific surface area of 5 to 25 m²/g.

4. (canceled)

5. (currently amended) The mixture according to claim 1 wherein the bonding agent is selected from ~~nitrocellulose~~, polyvinyl alcohol and acacia gum.

6. (canceled)

7. (previously presented) The mixture according to claim 1 wherein the friction agent is ground glass.

8-10. (canceled)

11. (previously presented) The mixture according to claim 2 wherein said high explosive is penthrite.

12. (currently amended) The mixture according to claim 2 wherein said bonding agent is ~~nitrocellulose~~, polyvinyl alcohol, or acacia gum.

13. (currently amended) The mixture according to claim ~~[[12]]~~ 2 wherein nitrocellulose is simultaneously said explosive and said bonding agent is ~~nitrocellulose~~ and said mixture further comprises an organic solvent.

14. (previously presented) The mixture according to claim 13 wherein said organic solvent is acetone.

15. (previously presented) The mixture according to claim 2 wherein said boron is amorphous boron with specific surface area of 5 to 25 m²/g.

16. (previously presented) The mixture according to claim 2 wherein said friction agent is ground glass.

17. (currently amended) The mixture according to claim ~~[[5]]~~ 1 wherein nitrocellulose is simultaneously said explosive and said bonding agent is ~~nitrocellulose~~ and said mixture further comprises an organic solvent.

18. (previously presented) The mixture according to claim 17 wherein said organic solvent is acetone.

19. (withdrawn) A primer cap for an ammunition cartridge filled with the mixture of claim 1.

20. (withdrawn) The primer cap of claim 19 wherein said ammunition cartridge is a central ignition cartridge.

- 21. (withdrawn) An ammunition cartridge comprising the primer cap of claim 19.
- 22. (withdrawn) An ammunition cartridge comprising the primer cap of claim 20.

In the event the U.S. Patent and Trademark office determines that an extension and/or other relief is required, applicant petitions for any required relief including extensions of time and authorizes the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing docket no. **321402000200**. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: November 12, 2003

Respectfully submitted,

By 

James J. Mullen, III, Ph.D.

Registration No.: 44,957

MORRISON & FOERSTER LLP

3811 Valley Centre Drive, Suite 500

San Diego, California 92130

(858) 720-7940